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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/601,513	06/23/2003	Kenneth J. Crisler	CM05315G	9720
22917	7590 10/04/2004		EXAMINER	
MOTOROLA, INC. 1303 EAST ALGONQUIN ROAD IL01/3RD			MILLER, BRANDON J	
			ART UNIT	PAPER NUMBER
SCHAUMBU	JRG, IL 60196	2683		
	•		DATE MAILED: 10/04/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Commons	10/601,513	CRISLER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Brandon J Miller	2683				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timy within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	rely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-17</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.						
6)⊠ Claim(s) <u>1-17</u> is/are rejected.	5) Claim(s) is/are allowed.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9) The specification is objected to by the Examine	er.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat* See the attached detailed Office action for a list	es have been received. es have been received in Application rity documents have been receive ou (PCT Rule 17.2(a)).	on No ed in this National Stage				
·						
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date <u>9/24/2004</u>.</li> </ul>	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	atent Application (PTO-152)				

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## DETAILED ACTION-

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hendrey in view of Beming.

Regarding claim 1 Hendrey teaches a method of dynamically determining a community of entities in a communications system having a plurality of entities (see col. 6, lines 20-37 & 49-53). Hendrey teaches determining the location of at least a portion of the plurality of entities within a first coverage area (see col. 5, lines 29-35 and col. 6, lines 32-37). Hendrey teaches detecting that a predetermined proximity threshold has been met (see col. 6, lines 20-31 & 49-52). Hendrey teaches generating a list of entities that are in proximity to a predetermined distance within which the proximity threshold criteria was met (see col. 6, lines 49-53). Hendrey teaches determining whether at least one community can be defined comprising at least two entities from the list (see col. 6, lines 54-64). Hendrey does not specifically teach computing an entity density function for a plurality of density calculation zones within a first coverage area as a function of a determined location of the entities, or detecting if a predetermined proximity density threshold has been exceeded in at least one density calculation zone. Beming teaches computing a communication density function for a

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plurality of density calculation zones within a first coverage area as a function of a determined location of the communication signals, or detecting if a predetermined proximity density threshold has been exceeded in at least one density calculation zone (see col. 10, lines 38-67 and FIG. 4). It would have been obvious to one of ordinary skill in the art at the time the invention was made to make the device adapt to include computing an entity density function for a plurality of density calculation zones within a first coverage area as a function of a determined location of the entities, or detecting if a predetermined proximity density threshold has been exceeded in at least one density calculation zone because this would allow for facilitating efficient utilization of a multi-user communications system.

Regarding claim 2 Hendrey teachés defining at least one community comprising at least two entities from a list (see col. 6, lines 54-56 & 59-64).

Regarding claim 3 Hendrey teaches sending default community information to each entity in a defined community (see col. 6, lines 26-30 & 32-37).

Regarding claim 4 Hendrey teaches a defined community that is a talk group (see col. 7, lines 28-31).

Regarding claim 5 Hendrey teaches a defined community that is a multicast list (see col. 6, lines 49-56).

Regarding claim 6 Hendrey teaches determining whether a community can be established including determining whether at least two entities from a list are authorized to join the community (see col. 6, lines 49-53 & 61-64).

Regarding claim 7 Hendrey teaches defining at least one preliminary community comprising at least two entities from the list (see col. 6, lines 49-53 & 61-67); and enabling a

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community to be modified (see col. 7, lines 9-12 & 23-31).

Regarding claim 8 Hendrey teaches determining whether a community can be established comprises determining whether at least two entities from the list have at least one common predetermined communications capability (see col. 6, lines 32-41).

Regarding claim 9 Hendrey teaches a communications capability that is a common media capability (see col. 4, lines 16-20).

Regarding claim 10 Beming teaches a communication signal that is located within the density calculation zone for which the density threshold was exceeded (see col. 10, lines 38-67).

Regarding claim 11 Beming teaches a communication signals within a predetermined area of the density calculation zone for which the proximity density threshold was exceeded (see col. 10, lines 38-67 and FIG. 4).

Regarding claim 12 Beming teaches each density calculation zone comprises a portion of a first coverage area and the density calculation zones have overlapping coverage areas (see col. 10, lines 38-43 and FIG. 4).

Regarding claim 13 Beming teaches a density calculation zone that comprises uniform sized portions of a first coverage area (see col. 10, lines 38-43 and FIG. 4)

Regarding claim 14 Beming teaches an entity density computation for each density calculation zone comprising determining the number of communication signals within the density calculation zone (see col. 10, lines 38-58).

Regarding claim 15 Beming teaches a proximity density threshold that is statistically configured (see col. 6, lines 10, lines 41-43).

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Regarding claim 16 Beming teaches a proximity density threshold that is dynamically determined (see col. 3, lines 29-32).

Regarding claim 17 Hendrey teaches determining whether a community can be established is based on user preference (see col. 6, lines 26-30 & 49-53).

## Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Chavez, Jr. U.S Patent No. 6,198,938 discloses dynamic associative terminating extension groups.

Gosselin U.S. Patent No. 6,738,639 discloses reducing signaling traffic with multicasting in a wireless communication network.

He U.S. Patent No. 6,754,500 discloses a channel grouping system and method for a wireless communication system.

Toyryla et al. Pub. No.: US 2003/0083086 A1 discloses a method for creating a dynamic talk group.

Motegi et al. Pub. No.: US 2001/0027111 A1 discloses a group communication system for mobile terminals.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brandon J Miller whose telephone number is 703-305-4222. The examiner can normally be reached on Mon.-Fri. 8:00 am to 5:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on 703-308-5318. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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September 24, 2004

WILLIAM TROST SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600